

Figure 1: Cytotoxic T-cell Inducing Sequence

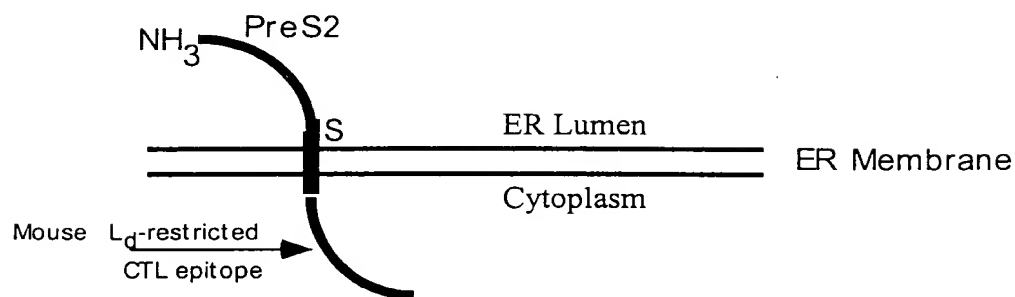


Figure 2: Addition of Heterologous Epitopes to Cytotoxic T-cell Inducing Sequence

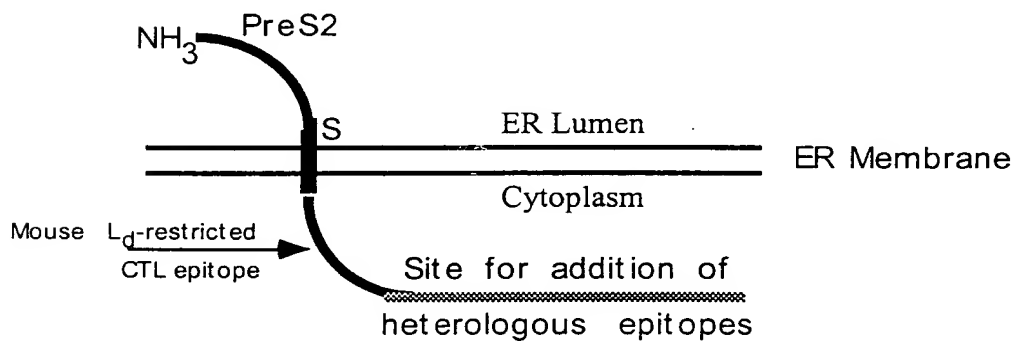


Figure 3

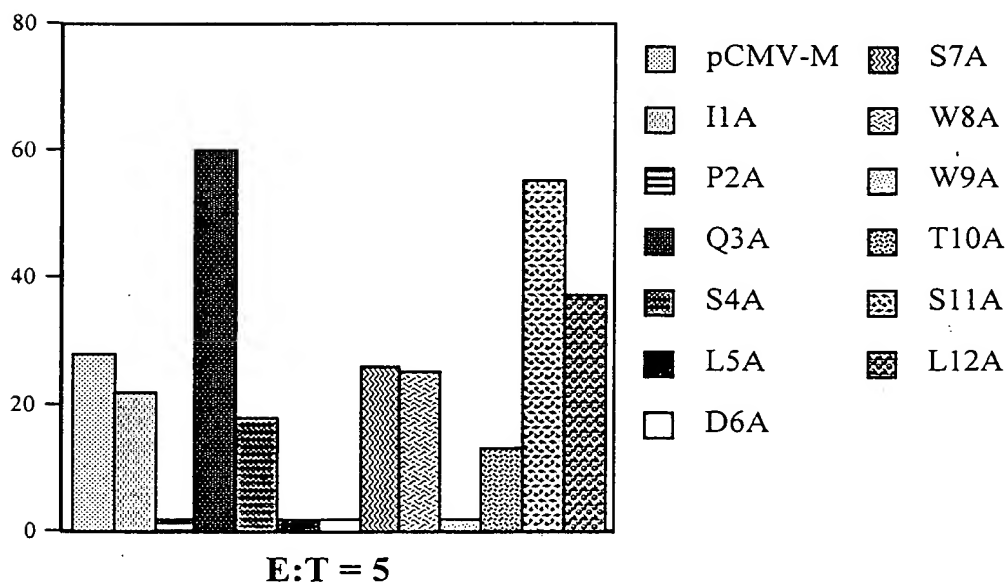


Figure 4: Method of preparing immunogenic agonist sequences (IAS)

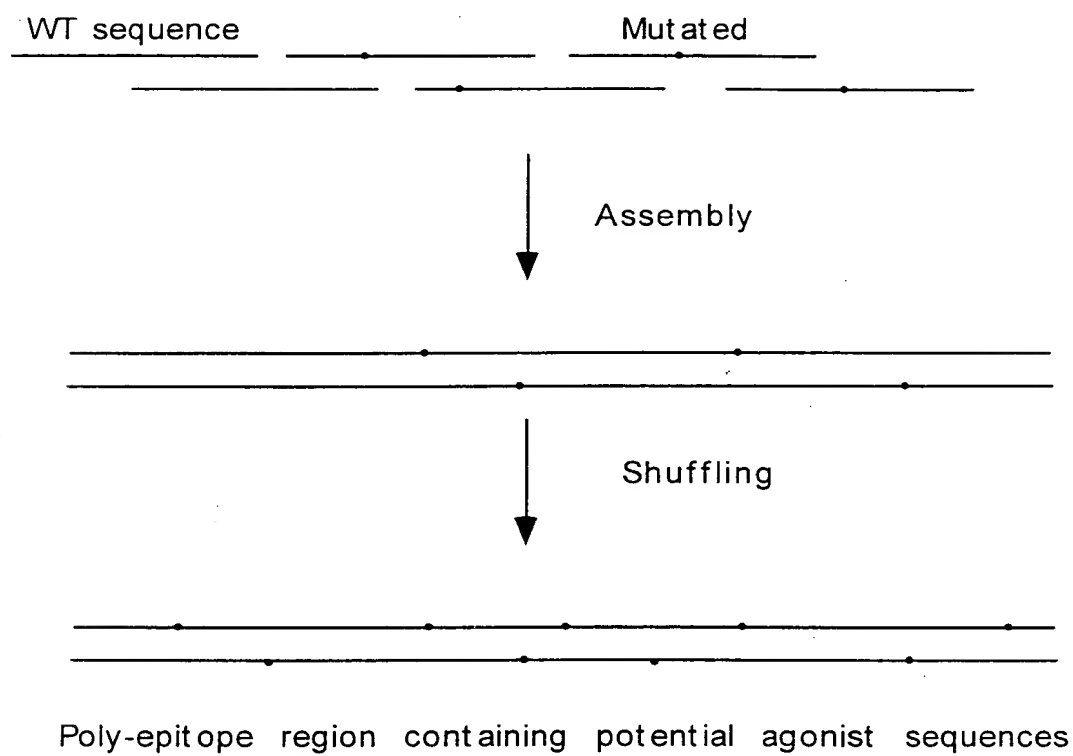


Figure 5

Improving immunostimulatory sequences (ISS) by DNA shuffling

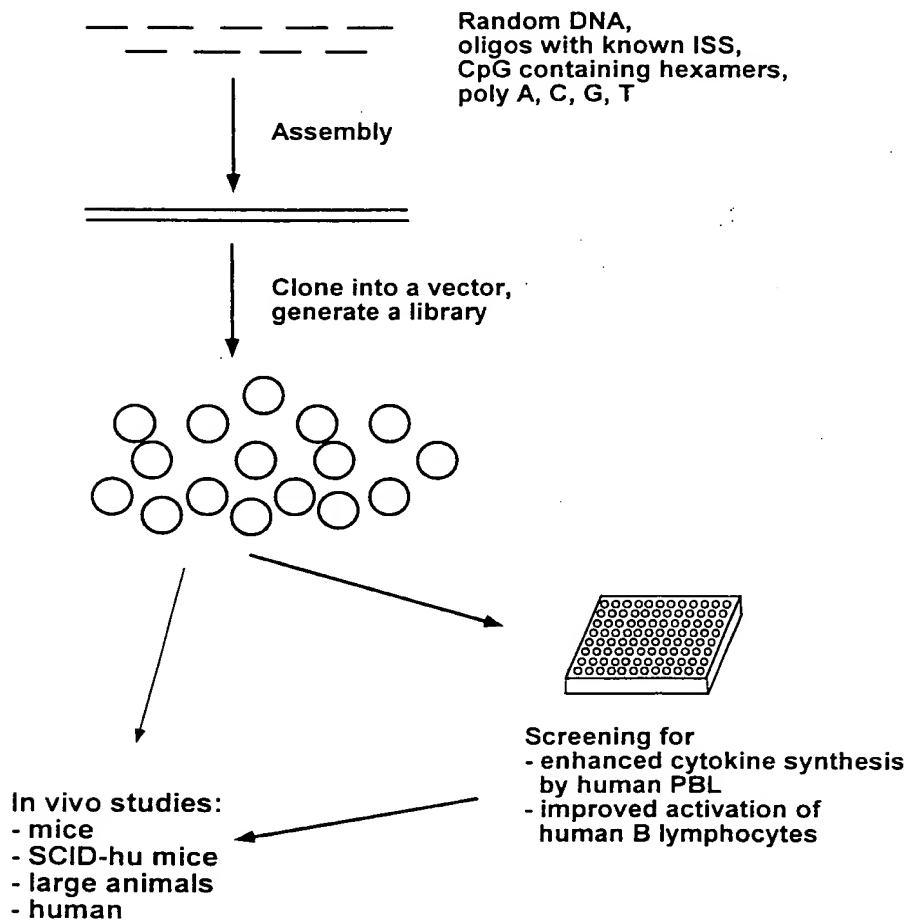


Figure 6: Screening of libraries of human IL-12 genes

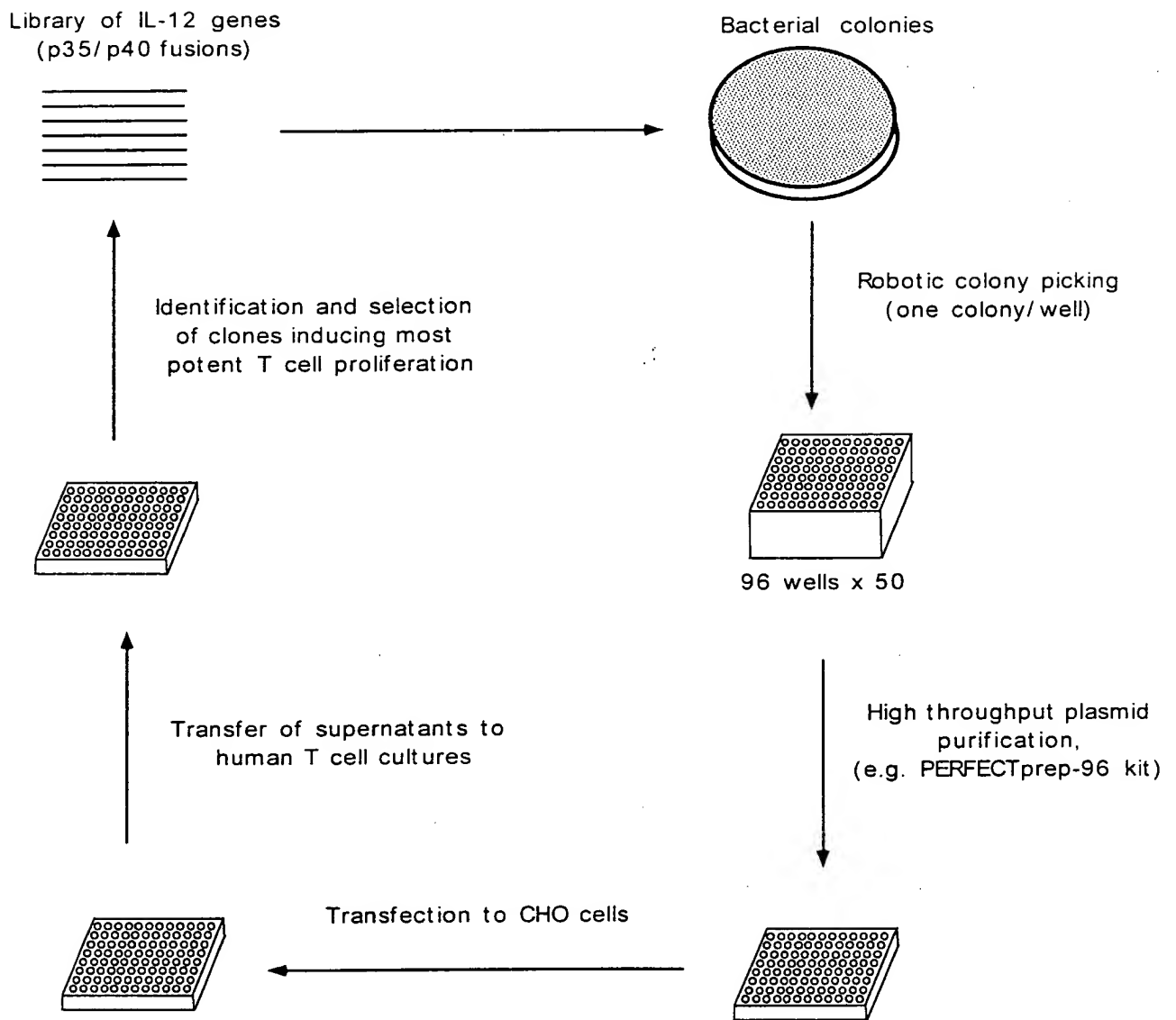


Figure 7

High Throughput Functional Assay for Vectors Encoding IL-12 Variants

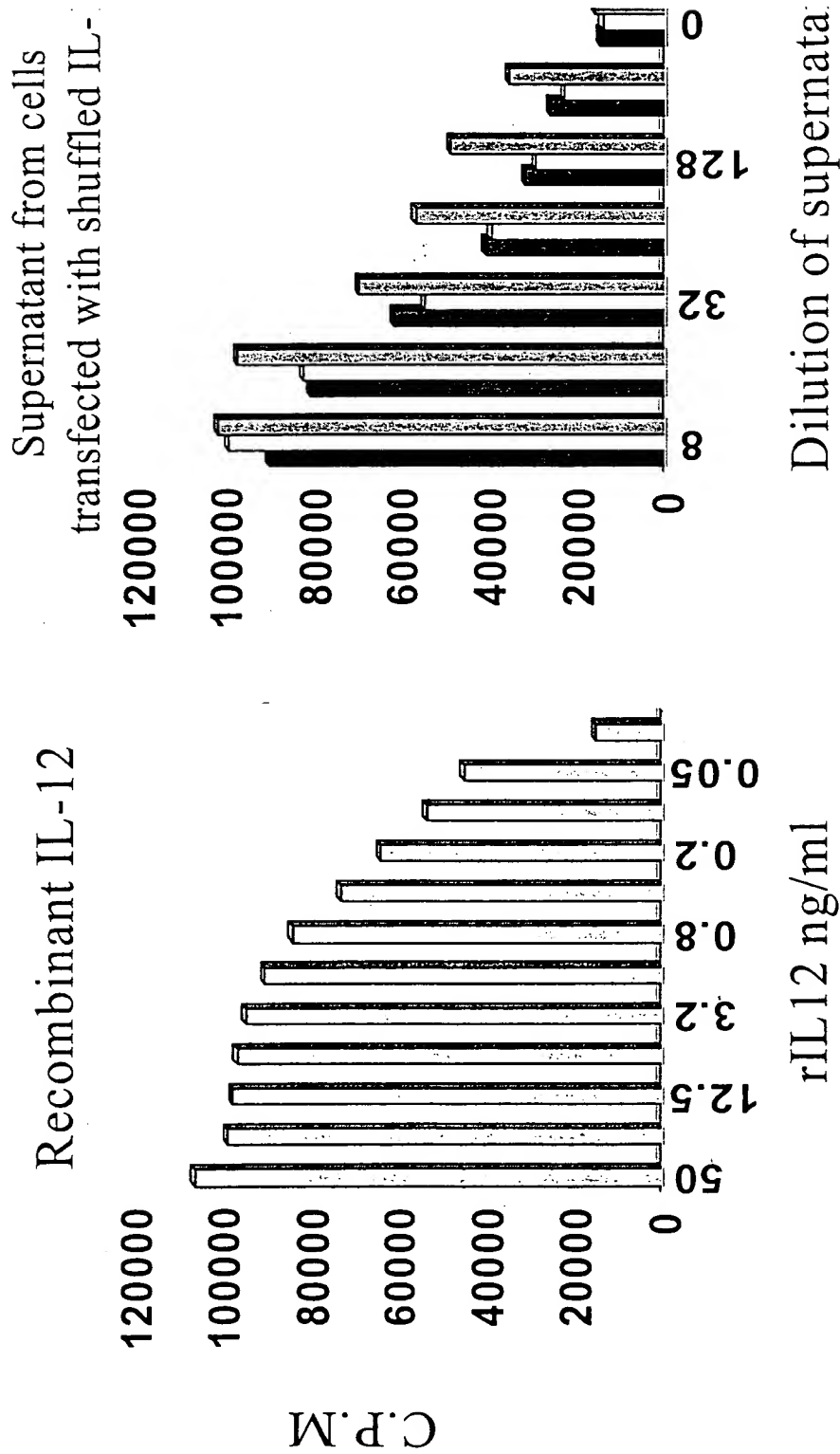


Figure 8

T cell Proliferation Induced by Individual Transfected Vectors Encoding IL-12

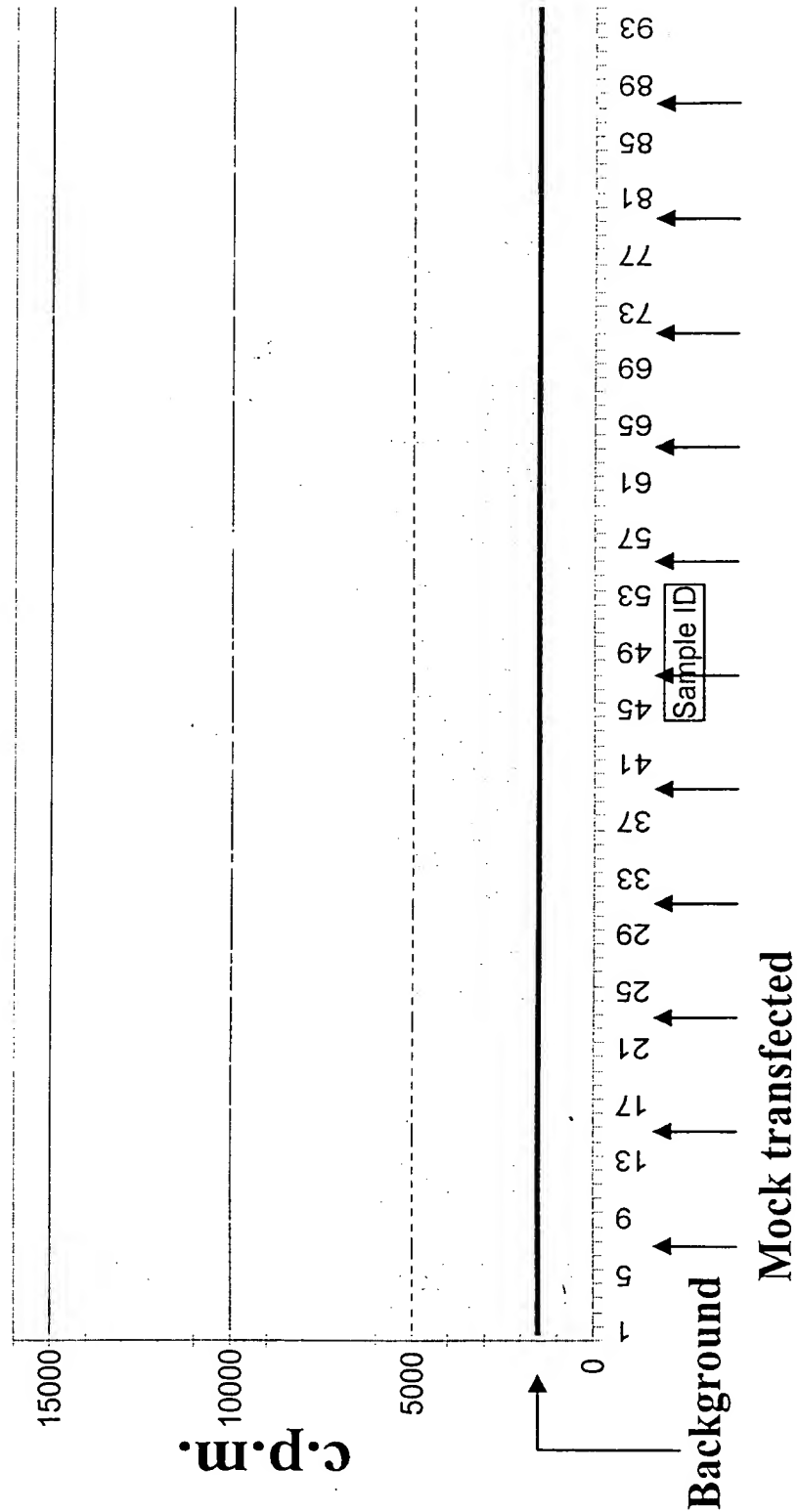


Figure 10

Model of induction of T cell activation or anergy by genetic vaccine vectors encoding different CD80 and/or CD86 variants

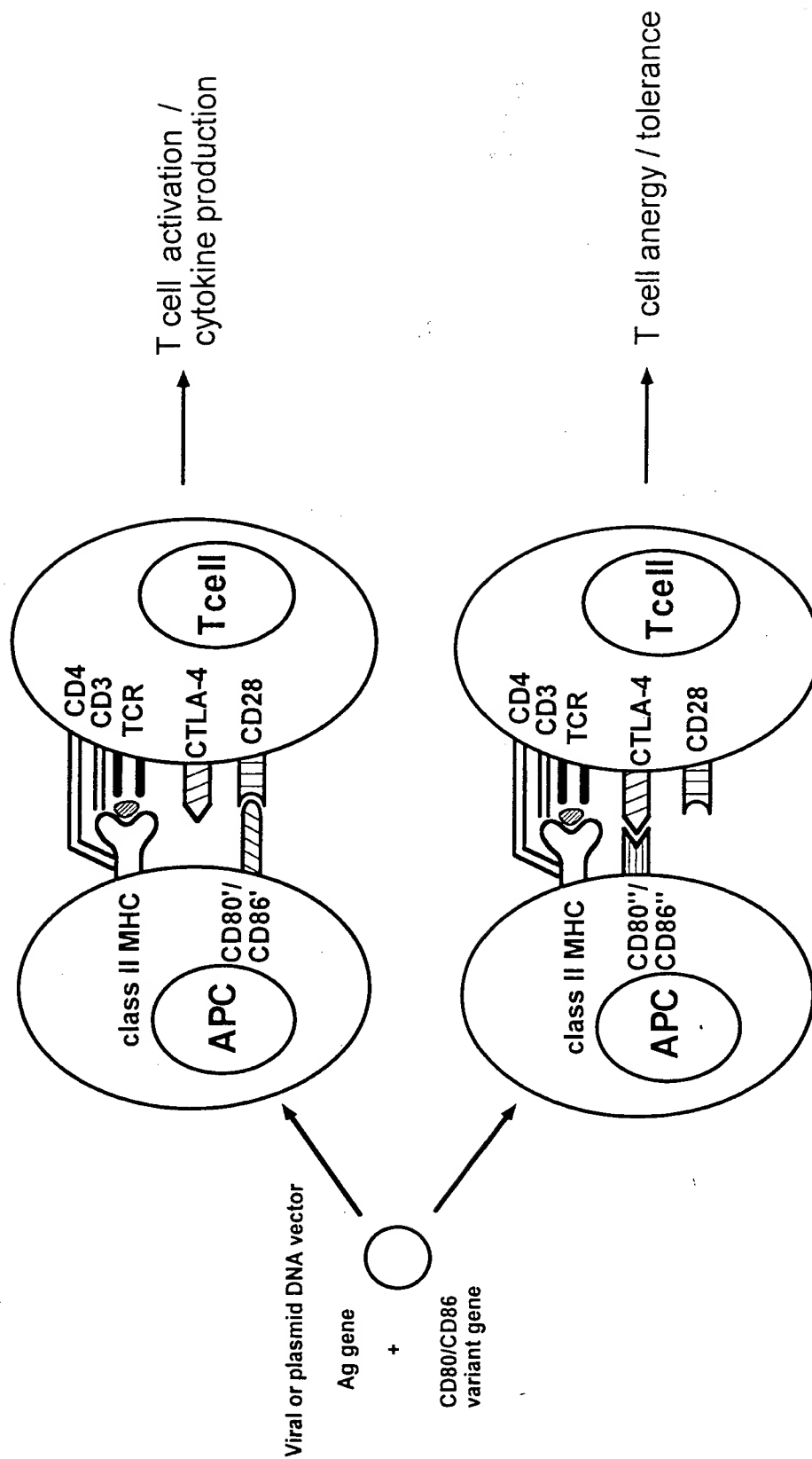


Figure 11

Screening of CD80/CD86 variants that have improved capacity to induce T cell activation or anergy

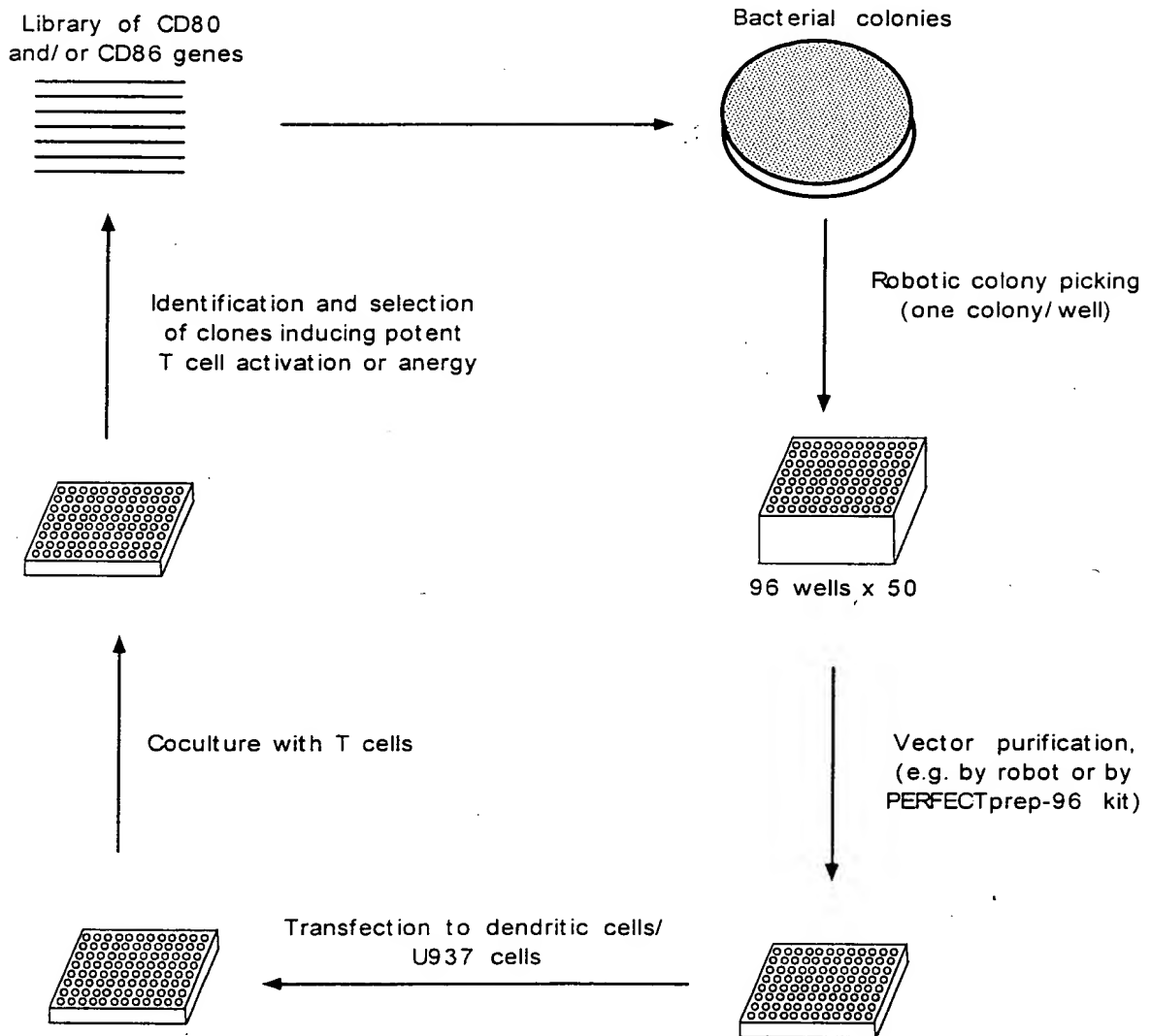


Figure 12

Screening Assay for Altered Function of B7

Proliferation of human peripheral blood T cells in response to anti-CD3 mAbs and COS-7 cells transfected with B7-1

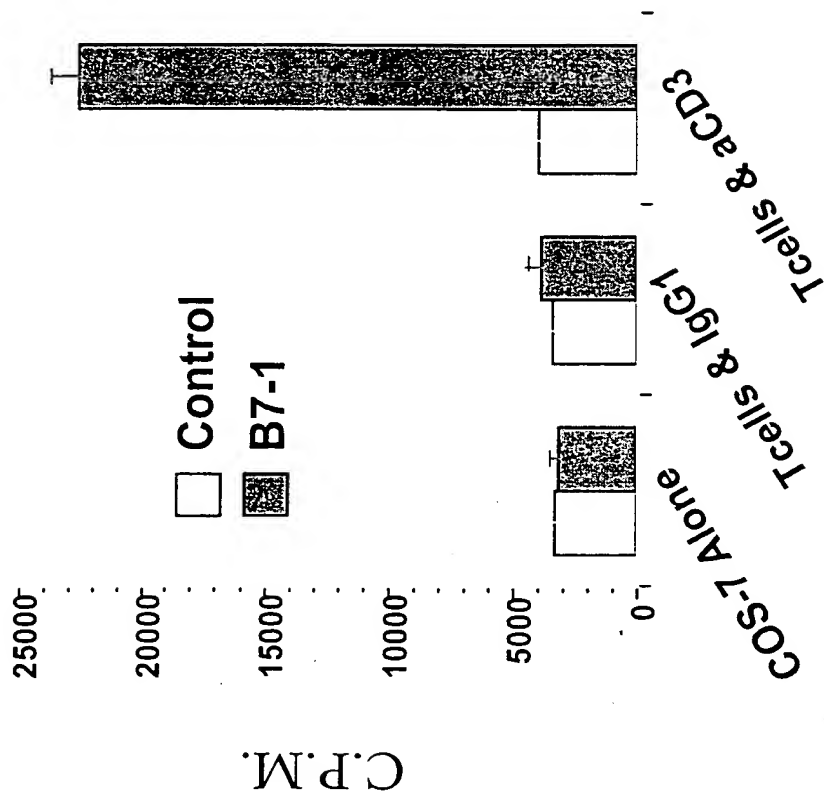


Figure 14: Alignment of human and mouse IL-10 receptor sequences illustrating the feasibility of family shuffling when evolving IL-10 antagonists.

IL-10R_DNA_seq	1	AAA..GAGCTGGA.....GGCGCGCAGGCCGCTCCGCT....CCGGCCCC...GGACG	60
Mouse_IL-10R_seq		CCATTGTGCTGGAAAGCAGGACGCGCGCGGAGGCGTAAAGCGCGCTCCAGTGGACG	
IL-10R_DNA_seq	61	ATGCGGC...GGCGCCAGGATGCTGCCGTGCCCTCGTAGTGTCTGTGGCGGCTCCTCAG	120
Mouse_IL-10R_seq		ATGCCGCTGTGGCGCCAGGATGTTGTGCGGTTTGCTCCCATTCCTCGTCACGATCTCCAG	
IL-10R_DNA_seq	121	CCTCCGCTTTGGCTCAGACGCTCATGGGACAGAGCTGCCAGCCCTCCGCTGTGTGGTT	180
Mouse_IL-10R_seq		CCTGAGCCTAGAATTTCATTGCATACGGGACAGAACTGCCAAGCCCTTCCTATGTGTGGTT	
IL-10R_DNA_seq	181	TGAAGCAGAAATTTTCCACCACATCCTCCACTGGACACCCATCCCAAATCAGTCTGAAAG	240
Mouse_IL-10R_seq		TGAAGCCAGATTTTTCAGCACATCCTCCACTGGAAACCTATCCCAAACCAGTCTGAGAG	
IL-10R_DNA_seq	241	TACCTGCTATGAAGTGGCGCTCCTGAGGTATGGAATAGAGTCTGGAACTCCATCTCCAA	300
Mouse_IL-10R_seq		CACCTACTATGAAGTGGCCCTCAACACAGTACGGAAACTCAACCTGGAATGACATCCATAT	
IL-10R_DNA_seq	301	CTGTAG.....CCAGACCCTGTCTCTATGACCTTACCGCAGTGACCTTGGACCTGTACCA	360
Mouse_IL-10R_seq		CTGTAGAAAGGCTCAGGCATTGTCTGTGATCTCAACAAGTTCAACCCTGGATCTGTATCA	
IL-10R_DNA_seq	361	C...AGCAATGGCTACCGGGCCAGAGTGGGGCTGTGGACGGCAGCCGGCACTCCAACTG	420
Mouse_IL-10R_seq		CCGAAGCTATGGCTACCGGGCCAGAGTCCGGCAGTGGACAAACAGTCACTACTCCAACTG	
IL-10R_DNA_seq	421	GACCGTCACCAACACCCCGCTTCTCTGTGGATGAAGTACTCTGACAGTTGGCAGTGTGAA	480
Mouse_IL-10R_seq		GACCACCACTGAGACTCGCTTCACAGTGGATGAAGTATTCTGACAGTGGATAGCGTGAC	

Figure 14 (continued)

IL-10R_DNA-seq	481	CCTAGAGATCCACAATGGCTTTCATCCTCGGGAAGATTTCAGTACCCAGGCCCAAGATGGC	540
Mouse_IL-10R_seq		TCTGAAAGCAATGGACGGCATCATCTATGGACAATCCATCCCCCAGGCCACGATAAC	
IL-10R_DNA-seq	541	CCCCGCGAATGACACATATGAAAGCATCTTCAGTCACTTCCGAGAGTATGAGATTGCCAT	600
Mouse_IL-10R_seq		CCCTGCAGGGGATGAGTACGAACAAGTCTTCAAGGATCTCCGAGTTTACAAGATTTCAT	
IL-10R_DNA-seq	601	TCGCAAGGTGCCGGGAACTTTCACGTTTCACACACAAGAAAGTAAACATGAAAACTTCAG	660
Mouse_IL-10R_seq		CCGGAAGTTCTCAGAA...CTAAAGAAATGCAACCAAGAGAGTGAAACAGGAAACCTTCAC	
IL-10R_DNA-seq	661	CTCCTTAACCTCTGGAGAAGTGGGAGAGTTCTGTGTCCAGGTGAAACCATCTGTGCTTC	720
Mouse_IL-10R_seq		CTCACGGTCCCCATAGGGGTGAGAAAGTTTGTGTCAAGGTGCTGCCCCGCTTGGAATC	
IL-10R_DNA-seq	721	CCGAAGTAAACAAGGGGATGTGGTCTAAAGAGGAGTGCATCTCCCTCAC...CAG.GCAGTA	780
Mouse_IL-10R_seq		CCGAATTAAACAAGGCAGAGTGGTCCGAGGAGCAGTGTCTTACTTATCAGCAGGAGCAGTA	
IL-10R_DNA-seq	781	TTTCACCGTGAACCAACGTCAATCATCTTCTTTGCCCTTTGTCCCTGTCTCTCCGGAGCCCT	840
Mouse_IL-10R_seq		TTTCACTGTGACCAACCTGAGCATCTTAGTCATATCTATGCTGCTATTCTGTGGAATCCT	
IL-10R_DNA-seq	841	CGCCTACTGCCCTGGCCCTCCAGCTGTATGTGCGGGCCGCGAAAGACTACCCAGTGTCTCT	900
Mouse_IL-10R_seq		GGTCT...GTCTGGTTCTCCAGTGGTACATCCGGCACCCGGGGAAGTTGCCTACAGTCTCT	
IL-10R_DNA-seq	901	GCTCTTCAAGAAGCCCGCCCTTTCATCTTTCATCAGCCAGCGTCCCTCCCCAGAGACCCA	960
Mouse_IL-10R_seq		GGTCTTCAAGAAGCCTCAGCACTTCTTCCAGCCAAACC...C.TCTCTGCCCCAGAAACTCC	
IL-10R_DNA-seq	961	AGACACCATCCACCCGCTTGATGAGGAGGCCCTTTTGAAGGTGTCCCCCAGAGCTGAAGAA	1020
Mouse_IL-10R_seq		CGATGCCATTACATCGTGGACCTGGAGGTTTTCCTCCAAAGGTGTCTACTAGAGCTGAGAGA	

Figure 14 (continued)

IL-10R_DNA-seq	1021	CTTGACCTGCACGGCAGCACAGACAGTGGCTTTGGCAGCACCAAGCCATCCCTGCAGAC	1080
Mouse_IL-10R_seq		CTCAGTCCTGCATGGCAGCACCGACAGTGGCTTTGGCAGTGGTAAACCATCATCTTCAGAC	
IL-10R_DNA-seq	1081	TGAAGAGCCCCAGTTCCCTCCTCCCTGACCCCTCACCCCCCAGGCTGACAGAACGCTGGGAAA	1140
Mouse_IL-10R_seq		TGAAGAGTCCCAATTCCCTCCTCCCTCCCTCCACCCCCCAGATACAGGGGACTCTGGGAAA	
IL-10R_DNA-seq	1141	CGGGAGCCCCCTGTGTGGGGACAGCTGCAGTAGTGGCAGCAGCAATAGCACAGACAG	1200
Mouse_IL-10R_seq		AGAAGAGTCTCCAGGGCTACAGGCCACCTGTGG...GG.....ACAACACGGACAG	
IL-10R_DNA-seq	1201	CGGATCTGCCTGCAGGAGCCCCAGCCTGAGCCCCCAGCACAGGGCCCCCCTGGGAGCAACA	1260
Mouse_IL-10R_seq		TGGGATCTGCCTGCAGGAGCCCCGGCTTACACTCCAGCATGGGGCCCCCTTGGGAAGCAGCA	
IL-10R_DNA-seq	1261	GCTGGGAGCAACACAGCAGGGGCCAGGATGACAGTGGCATTGACTTAGTTCAAAACTCTGA	1320
Mouse_IL-10R_seq		GCTTGGATATATACCCATCAGGACCAGGATGACAGTACGTTAACCTAGTCCAGAACTCTCC	
IL-10R_DNA-seq	1321	GGCCGGGCTGGGGACACACAGGGTGGCTCGGCCCTTGGGCCACACAGTCCCGGGAGCC	1380
Mouse_IL-10R_seq		AGGCAGCCTAAGTACACACAGGATGCATCTGCCTTGGGCCATGTCTGTCTCCTAGAACC	
IL-10R_DNA-seq	1381	TGAGGTGCCTGGGAGAAGACCCAGCTGCTGTGGCATTCAGGGTTACCTGAGGCAGAC	1440
Mouse_IL-10R_seq		TAAAGCCCCCTGAGGAGAAAGACCAAGTCATGGTGACATTCAGGGCTACCAGAAAACAGAC	
IL-10R_DNA-seq	1441	CAGATGTGCTGAAGAGAAGCAACCAAGACAGGCTGCCTGGAGGAAGAAATCGCCCTTGAC	1500
Mouse_IL-10R_seq		CAGATGGAAGGCAGAGGCAGCAGGCCAGCAGCAATGCTTGGACGAAGAGATTCCCTTGAC	
IL-10R_DNA-seq	1501	AGATGGCCTTGGCCCCAAATTCGGGAGATGCCTGGTTGATGAGGCAGGCTTGCATCCACC	1560
Mouse_IL-10R_seq		AGATGCCTTTGATCCTGAACCTTGGGGTACACCTGCAGGATGATTGGCTTGGCCTCCACC	

Figure 14 (continued)

IL-10R_DNA_seq	1561	AGCCCTGGCCAAAGGGCTATTTGAAACAGGATCCTCTAGAAATGACTCTGGCTTCCTCAGG	1620
Mouse_IL-10R_seq		AGCTCTGGCCGCAGGTTATTTGAAACAGGAGTCTCAAGGATGGCTTCTGTCTCCACCAGG	
IL-10R_DNA_seq	1621	GGCCCCAACGGGACAGTGGAACCCAGCCACTGAGGAATGGTCACTCCTGGCCCTTGAGCAG	1680
Mouse_IL-10R_seq		GACACCAAGTAGACAGTGGAATCAACTGACCCGAGAGTGGTCACTCCTGGGTGTGGTTAG	
IL-10R_DNA_seq	1681	CTGCAGTGACCTGGGAATATCTGACTGGAGCTTTGCCCATGACCTTGCCCCCTCTAGGCTG	1740
Mouse_IL-10R_seq		CTGTGAAGATCTAAGCATAGAAAGTTGGAGGTTTGCCCATATAA ACTTGACCCCTCTGGACTG	
IL-10R_DNA_seq	1741	TGTGGCAGCCCCAGGTGGTCTCCTGGGCAGCTTTAACTCAGACCTGGTCACCCCTGCCCTT	1800
Mouse_IL-10R_seq		TGGGGCAGCCCCCTGGTGGCTCCTGGATAGCCCTTGGCTCTAACCTGGTCACCCCTGCCGTT	
IL-10R_DNA_seq	1801	CATCTTAGCCTGCAGTCAAGTGAGTGACTCGGGCTGAGAGGTGCTTTTGATTTTAGCC	1860
Mouse_IL-10R_seq		GATCTCCAGCCTGCAGGTAGAAGAAATGACAGCGGCTAAGAG.TTATTGT.ATTCCAGCC	
IL-10R_DNA_seq	1861	ATGCCTGCTCCTCTGCCCTGGACCAGGAGGAGGCCCTGGGGCAGAA GTTAGGCACGAGGC	1920
Mouse_IL-10R_seq		ATGCCTGCTCCCCCTCCCTGTACCTGG..GAGG...CT...CAGGAGTCAA...GAAAT	
IL-10R_DNA_seq	1921	AGTCTGGGCACCTTTTCTGCAAGTCCACTGGGGCTGGCCCGCCAGCCAGGCTGCAGGGCTGGTC	1980
Mouse_IL-10R_seq		A.TGTGGGTCCCTTTTCTGCAGACCTACTGTGACCCAGCT.AGCCAGGCTCCA.....	
IL-10R_DNA_seq	1981	AGGGTGTCTGGGCAGGAGGAGGCCAACTCACTGA ACTAGTGCAGGGTATGTGGGTGGCA	2040
Mouse_IL-10R_seq	CGGGCAAGGAAAGGCCATCTTGATACACGAGTGTCAAGTACATGAGAGGTT	
IL-10R_DNA_seq	2041	CTGACCTGTTCTGTTGACTGGGGCCCTGCAGACTCTGGCAGAGCTGAGAAGGG....CAG	2100
Mouse_IL-10R_seq		GTGGC.TAGTCTGCTGAGTGAGGGTCTGTAGATAC CAGCAGAGCTGAGCAGGATTGACAG	

Figure 14 (continued)

IL-10R_DNA-seq	2101	GGACCTTCTCCCTCCTAGGAACCTTTCTCTGTATCATAAAGGATTATTTGCTCAGGGG.A	2160
Mouse_IL-10R_seq		AGACCTCCTCATGCCTCAGGGCTGGCTCCTACACTG.GAAGGACC.TGTGTTTGGGTGTA	
IL-10R_DNA-seq	2161	ACCATGGGGCTTTCTGGAGTTGTGGTGAGGCCACAGGCTGAAGTCAGCTCAGACCCAGA	2220
Mouse_IL-10R_seq		ACCTCAGGGCTTTCTGGA..TGTGGTAAGACTGTAGGTCTGAAGTCAGCTGAG.CCTGGA	
IL-10R_DNA-seq	2221	CCTCCCTGCTTAGGCCACTCGAGCATCAGAGCTTCCAGCAGGAGGAAGGCTGTAGGAAT	2280
Mouse_IL-10R_seq		..TGCTCTGCGGAGGT.GTTGGAGTGGCT.AGCCTGCTACAGGATAAAGG.....	
IL-10R_DNA-seq	2281	GGAAGCTTCAGGGCCTTGCTGCTGGGTCATTTTtaggggaaaaggaggatatgatggT	2340
Mouse_IL-10R_seq		..AAGGCTCAAGA...GATAGAAGGCG.....AGAGCATGAGCCAGGTTTAATTTT	
IL-10R_DNA-seq	2341	CACATGGGGAACCTCCCTTCATCGGGCCTCTGGGCGAGGAAGCTTGTCACCTGGAAGATCT	2400
Mouse_IL-10R_seq		GTCTGTAGAGATGGTCCCCA...GCC...AGGATGGGTTACTTGTGGCTGGGAGATCT	
IL-10R_DNA-seq	2401	TAAGGTATATATT.TTCTGGACACTCAAAACACATCATATAATGGATTCACTGAGGGGAGACA	2460
Mouse_IL-10R_seq		TGGGTATACACCACCCCTGAATGATCAGCCA.GTCA.....ATTGAGAGCTGTGTGGCA	
IL-10R_DNA-seq	2461	AAGGAGCCGAGACCCCTGGATGGGCTTCCAGCTCAGAAACCCATCCCTCTGGTG.GGTAC	2520
Mouse_IL-10R_seq		AAAGGACTGAGACCCAGAAT....TTCTG.....TTCTCTTGTGAGGTGT	
IL-10R_DNA-seq	2521	CTCTGGCACCCTCTGCAAAATATCTCCCTCTCTCCAACAAATGGAGTAGCATCCCCCTGG	2580
Mouse_IL-10R_seq		CTCTGCTACCCATCTGCAGACAGACATCTTCATCTTTTACTATGGCTGTGTCCCC.TGA	
IL-10R_DNA-seq	2581	GGCATTGTGCTGAGGCCAAGCCACTCACATCCTCACTTTGTGTCGCCCCACCATCTTGCTGAC	2640
Mouse_IL-10R_seq		ATTACCAGCAGTGGCCAAGCCATT...ACTCCC...TGCTGCTC.ACTGTTGTGACGTC	

Figure 14 (continued)

IL-10R_DNA-seq	2641	AAC TTCAGAGAGCCATGGTTT.TTTGTATTGGTCATAACTCAGCCCTTTGGGCGGCCT	2700
Mouse_IL-10R_seq		AGA..CCAGACCAGACGCTGTCTGTGTAGT...ACACTACCCCTTTAGGTGGCCT	
IL-10R_DNA-seq	2701	CTGGGCTTGGGCACACAGCTCATGCCAGCCCCAGAGGGTCAGGGTTGGAGGCCCTGTGCTTG	2760
Mouse_IL-10R_seq		TTGGGCTTGAGCACTGGCCCA.....GGCTTAGGACTTATGTCTG	
IL-10R_DNA-seq	2761	TGTTTGCTGCTAATGTCCAGCTACAGACCCAGAGGATAAGCCACTGGGC.ACTGGGCTGG	2820
Mouse_IL-10R_seq		CTTTTGCTGCTAATCTTAAGTGCAGACCCAGAGAACAGGGTGTGGGCTGACACCTCCG	
IL-10R_DNA-seq	2821	GGTCC..CTGCCCTTGTGGTGTTCAGCTGTGTGATTTTGG.ACTAGC.CACTTGTCTCAGAG	2880
Mouse_IL-10R_seq		TGTTTCAGCTGTGTGACCTCCGACCCAGCAGCTTCCTCAGGGGACTAAATAATGACTAGGT	
IL-10R_DNA-seq	2881	GGCCTCAATCTCCCATCTGTGAAATAAGGACTC...CACCTTTAGGG.GACCCCTCCATGT	2940
Mouse_IL-10R_seq		CATTAGAAAGTCCCTCATGTCTGAATGTTAACCAAGGTGCCCTGGGTGATAGTTTAGGT	
IL-10R_DNA-seq	2941	TTGCTGGGTATTAGCCAAAGCTGGTCTCTGGGAGAAATGCAGATACTGTCCGTGGACTACCAA	3000
Mouse_IL-10R_seq		CCTGCAACCTCTGGGTTGGAAGGA...AGTGGAAGTACGGAAGCCATCTGT...CCCCCTG	
IL-10R_DNA-seq	3001	GCTGGCTTGTCTTATGCCAGAGGCTAACAGATCCAAATGGGAGTCCATGGTGTCTATGCC	3060
Mouse_IL-10R_seq		GGGAGCTTCCACCTCATGCCAGTGTTCAGAGATCTTGTGGGAGCCTAGGGCCTTGTGCC	
IL-10R_DNA-seq	3061	AAGACAGTATCAGACACAGCCCCAGAGGGGGCATTATGGGCCCTGCCCTCCCCATAGGCC	3120
Mouse_IL-10R_seq		AAGGAGCTGC....TAGTCCCTGGGGTCTAGGGC.TGGTCCCTGCCCTCCCTATATACTGC	
IL-10R_DNA-seq	3121	ATTGGACTCTGCCCTTCAAACAAAGGCAGTT..CAGTCCACAGGCATGGAAGCTGTGAGG	3180
Mouse_IL-10R_seq		GTTTGAGACCTGTCTTCAAATGGAGGCAGTTTGACAGCCCCCTAAGCAAGGATGCTGAGAGA	

Figure 14 (continued)

IL-10R_DNA-seq	3181	GGACAGGCCTGTGCGTGCCATCCAGAGTCATCTCAGCCCTGCCCTTTCTCTGGAGCATTTCT	3240
Mouse_IL-10R_seq		AG.CAG..CAAGGC.TGCT.....GATC.CCTGAGCCCAGAGTTTCTCTGAAGCTTTCC	
IL-10R_DNA-seq	3241	GAAACACAGATATTCTGGCCCCAGGGAATCCAGCCATGACCCCAACCCCTCTGCCAAAGTAC	3300
Mouse_IL-10R_seq		AAATACAGACTGTGTGACGGGTGAGGCCAGCCATGAACCTTGGCATCCTGCCGAGAAGG	
IL-10R_DNA-seq	3301	TCTTAGGTGCCAGTCTGGTAACTGAACTCCCTCTGGAGGCAGGCTTGAGGAGGATTCCT	3360
Mouse_IL-10R_seq		TCAT.GACCCTAATCTGGTACGAGAGCTCCTTCTGGAAGTGGC.....AAGCTCTT	
IL-10R_DNA-seq	3361	CAGGGTTCCCTTGAAAGCTTTATTTATTTATTTTGTTCATTTATTTATTGGAGAGGCAGC	3420
Mouse_IL-10R_seq		TGAGACCCCCCTGGAACCTTTATTTATTTATTT.GCTCACTTATTTATTGGAGGAAGCAGC	
IL-10R_DNA-seq	3421	ATTGCACAGTGAAAGAAATTCTGGATATCTCAGGAGCCCCGAAATTCTAGCTCTGACTTTG	3480
Mouse_IL-10R_seq		GTGGCACAGGCGCAAGGCTCTGGGTCTCTCAGGAGG.....TCTAGATTGCGCTGCC	
IL-10R_DNA-seq	3481	CTGTTTCCAGTGGTATGACCTTGGAGAAGTCACCTATCCTCTTGGAGCCTCAGTTTCCCTC	3540
Mouse_IL-10R_seq		CTGTTTCTAGCTGTGTGACCTTGGCAAGTCACGTTTCCCTCGTGGAGCCTCAGTTTTCCT	
IL-10R_DNA-seq	3541	ATCTGCA.....GAATAATGA.....CTGACTTGTCTAATTCATAGGGATGTG	3600
Mouse_IL-10R_seq		GTCTGTATGCAAAAGCTTGGAAATTGAAATGTACCTGACGTGCTCCATCCCCTAGGAGTGCT	
IL-10R_DNA-seq	3601	AGGTTCTGCTGAGGAAATGGGTATGAATGTGCCCTTGAACACAAAGCTCTGTCAATAAGTG	3660
Mouse_IL-10R_seq		GAGTCCCACCTGAGAAAGCGGGCACAGACG..CCTCAAAATGGAA.....CCACAAGTG	

[illegible]

Figure 14 (continued)

3661

IL-10R_DNA-seq
Mouse_IL-10R_seq

3703

ATACATGTTTATTATTCCAATAAAATTGTCAAG.ACCAC....A
GTGTGTGTTTTTC.ATCCTAATAAAAAGTCAGGTGTTTTGTGGA

Figure 15: Alignment of human, rhesus monkey and rabbit DNA sequences of B7-1 molecules (CD80) illustrating the feasibility of family shuffling.

B7-1, _human_seq	1	ATGGGCCACACACGAGGAGGAGGAAACATCACCATCCAAGTGTCATACCTCAATTTCTTT	60
B7-1, _rhesus_monkey_seq		ATGGGCCACACACGAGGAGGAGGAAATATCACCATCCAAGTGTCATACCTCAAGTTCTTT	
B7-1, _rabbit_seq		ATGGGCCACACGCTGAGGCCGGGAACTCCACTGCCAGGTGTCTACACCTCAAGCTCTGC	
B7-1, _human_seq	61	CAGCTCTTGGTGCTGGCTGGTCTTTCTCACTTCTGTTCAGGTGTTATCCACGTGACCAAG	120
B7-1, _rhesus_monkey_seq		CAGCTCTTGGTGCTGGCTTGTCTTTCTCACTTCTGTTCAGGTGTTATCCACGTGACCAAG	
B7-1, _rabbit_seq		CTGCTCTTGGCGCTGGCGGGTCT...CCACTTCTCTTTCAGGTATCAGCCAGGTACCCAAG	
B7-1, _human_seq	121	GAAGTGAAAGAAAGTGGCAACCGCTGTCTGTGGTCAACAATGTTTCTGTTGAAGAGCTGGCA	180
B7-1, _rhesus_monkey_seq		GAAGTGAAAGAAAGTGGCAACCGCTGTCTGTGGTCAACAATGTTTCTGTTGAAGAGCTGGCA	
B7-1, _rabbit_seq		TGGTGAAAGAAATGGCAGCACTGTCTGTGATTACAACATTTTCTATCGATGAACCTGGCG	
B7-1, _human_seq	181	CAAACTCGCATCTACTGGCAAAAGGAGAGAAATGGTGTGACTATGATGTCTGGGGAC	240
B7-1, _rhesus_monkey_seq		CAAACTCGCATCTACTGGCAAAAGGAGAGAAATGGTGTGACTATGATGTCTGGGGAC	
B7-1, _rabbit_seq		AGAAATGCGCATATATACTGGCAGAGGACCAACAGATGGTGTGCTGAGCATCATCTCTGGGCAA	
B7-1, _human_seq	241	ATGAATATATGCCCCGAGTACAAGAACCCGGACCATCTTTGATATCACTAATAACCTCTCC	300
B7-1, _rhesus_monkey_seq		ATGAATATATGCCCCGAGTACAAGAACCCGGACCATCTTTGATATCACTAATAACCTCTCC	
B7-1, _rabbit_seq		GTGGAAGTGTGGCCTGAGTACAAGAACCCGCACCTTCCCCGACATCATTAACAACCTCTCC	
B7-1, _human_seq	301	ATTGTGATCCTGGCTCTGCGGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAG	360
B7-1, _rhesus_monkey_seq		ATTGTGATCCTGGCTCTGCGGCCCATCTGACGAGGGCACATACGAGTGTGTTGTTCTGAAG	
B7-1, _rabbit_seq		CTTATGATCCTGGCACTGGCCTGTGCGGACAAAGGGCACCTACACCTGCGTGGTTCAGAAG	

Figure 15 (continued)

B7-1, _human_seq	361	TATGAAAAAGACGCTTTCAAGCGGGAAACACCTGGCTGAAGTGACGTTATCAGTCAAAGCT	420
B7-1, _rhesus_monkey_seq		TATGAAAAAGATGCTTTCAAGCGGGAAACACCTGGCTGAAGTGATGTATCCGTCAAAGCT	
B7-1, _rabbit_seq		AATGAGAACGGGTCTTTTCAGACGGGAGCACCTGACCTCCGTGACACTGTCCATCAGAGCT	
B7-1, _human_seq	421	GACTTCCCTACACCTAGTATATCTGACTTTGAAATTCCAACCTTCTAATATTAGAAGGATA	480
B7-1, _rhesus_monkey_seq		GACTTCCCTACACCTAGTATTAACCTGACTCTGAAATTCCACCTTCTAACATTAGAAGGATA	
B7-1, _rabbit_seq		GACTTCCCTGTCCCTAGCATAACTGACATTGGACATCCCGACCCCTAATGTGAAAAAGGATA	
B7-1, _human_seq	481	ATTTGCTCAACCTCTGGAGGTTTTCCAGAGCCTCACCTCTCCTGGTTGGAAAAATGGAGAA	540
B7-1, _rhesus_monkey_seq		ATTTGCTCAAACTCTGGAGGTTTTCCAGAGCCTCACCTCTCCTGGTTGGAAAAATGGAGAA	
B7-1, _rabbit_seq		AGATGCTCCGCCCTCTGGAGGTTTTCCAGAGCCTCGCCTCGCCTGGATGGAAGATGGAGAA	
B7-1, _human_seq	541	GAATTAAATGCCATCAACACAAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATGCTGTT	600
B7-1, _rhesus_monkey_seq		GAATTAAATGCCATCAGCACAAACAGTTTCCCAAGATCCTGAAACTGAGCTCTATGCTGTT	
B7-1, _rabbit_seq		GAACTAAACGCCGTCAACACGACGGTTTGACCAGGATTTGGACACGGAGCTCTACAGCGTC	
B7-1, _human_seq	601	AGCAGCAAACCTGGATTTCAAATATGACAACCAACCACAGCTTCATGTGTCTCATCAAGTAT	660
B7-1, _rhesus_monkey_seq		AGCAGCAAACCTGGATTTCAAATATGACAACCAACCACAGTTTCATGTGTCTCATCAAGTAT	
B7-1, _rabbit_seq		AGCAGTGAACCTGGATTTCAAATGTGACAAATAACCACAGCATCGTGTGTCTCATCAAAATAC	
B7-1, _human_seq	661	GGACATTTAAGAGTGAATCAGACCTTCACCTGGAAATACAACCAAGCAAGAGCATTTTCCT	720
B7-1, _rhesus_monkey_seq		GGACATTTAAGAGTGAATCAGACCTTCACCTGGAAATACAACCAAGCAAGAGCATTTTCCT	
B7-1, _rabbit_seq		GGGGAGCTGTGGTGTTCACAGATCTTCCCTTGGAGCAAAACCCCAAGCAGGAGC...CTCCC	
B7-1, _human_seq	721	GATAACCTGTCTCCCATCCTGGGCCATTACCTTAAT.....CTCAGTAAATGGAATT	780
B7-1, _rhesus_monkey_seq		GATAACCTGTCTCCCATCCTGGGCCATTATCCTAAT.....CTCAGTAAATGGAATT	
B7-1, _rabbit_seq		ATTGATCAGCTTCCATTCTGGGTGTCATTATCCCAAGTAAAGTGGTGTCTTGGTGCTCACTGCG	

Figure 15 (continued)

B7-1, _human_seq	781	TTTGTGATATGCTGCCTGACCTACTGCTTTGCCCAAGATGCAGAGAGAGAAGGAGGAAT	840
B7-1, _rhesus_monkey_seq		TTTGTGATATGCTGCCTGACCTACTGTTTGGCCCAAGGTGCAGAGAGAGAAGGGAAT	
B7-1, _rabbit_seq		GTAGTTCTCTACTGCTGCCTGGCCTGCAGACATGTTGCGAGGTGGAAAAAACAAGAAGGAAT	
B7-1, _human_seq	841	GA...GAGATTGAGAAGGGAAGTGTACGCCCTGTATA.....	900
B7-1, _rhesus_monkey_seq		GA...GACATTGAGAAGGGAAGTGTACGCCCTGTATG.....	
B7-1, _rabbit_seq		GAAGAGACAGTGGGAACTGAAAGGCTGTCCCCCTATCTACTTAGGCTCTGCGCAATCCTCG	
B7-1, _human_seq	901A	906
B7-1, _rhesus_monkey_seq	A	
B7-1, _rabbit_seq		GGCTGA	